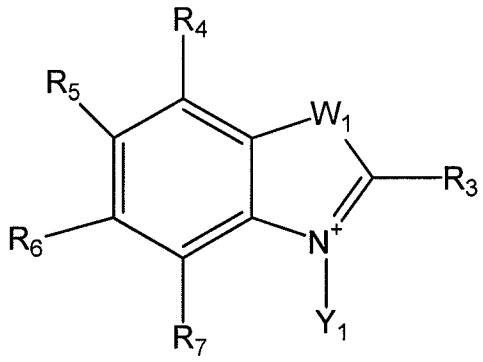
AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior listings of claims in the application:

1. (PREVIOUSLY PRESENTED) A compound of formula 1



Formula 1

wherein

R_3 is C_1-C_{10} alkyl;

R_4 to R_7 are independently selected from the group consisting of -H, C1-C10 alkoxyl, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, C1-C10 aryl, $-SO_3T$, $-CO_2T$, -OH, $-(CH_2)_aSO_3T$, $-(CH_2)_aOSO_3T$, $-(CH_2)_aNHSO_3T$, $-(CH_2)_aCO_2(CH_2)_bSO_3T$, $-(CH_2)_aOCO(CH_2)_bSO_3T$, $-(CH_2)_aCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCO(CH_2)_bSO_3T$, $-(CH_2)_aNHCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCSNH(CH_2)_bSO_3T$, $-(CH_2)_aOCONH(CH_2)_bSO_3T$, $-(CH_2)_aPO_3HT$, $-(CH_2)_aPO_3T_2$, $-(CH_2)_aOPO_3HT$, $-(CH_2)_aOPO_3T_2$, $-(CH_2)_aNHPO_3HT$, $-(CH_2)_aNHPO_3T_2$, $-(CH_2)_aCO_2(CH_2)_bPO_3HT$, $-(CH_2)_aCO_2(CH_2)_bPO_3T_2$, $-(CH_2)_aOCO(CH_2)_bPO_3HT$, $-(CH_2)_aOCO(CH_2)_bPO_3T_2$, $-(CH_2)_aCONH(CH_2)_bPO_3HT$, $-(CH_2)_aCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCO(CH_2)_bPO_3HT$, $-(CH_2)_aNHCO(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCONH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3T_2$, $-(CH_2)_aOCONH(CH_2)_bPO_3HT$, $-(CH_2)_aOCONH(CH_2)_bPO_3T_2$, $-CH_2(CH_2\text{-}O\text{-}CH_2)_c\text{-}CH_2\text{-}OH$, $-(CH_2)_d\text{-}CO_2T$, $-CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_e\text{-}CH_2\text{-}CO_2T$, $-(CH_2)_f\text{-}NH_2$, $-CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_g\text{-}CH_2\text{-}NH_2$, $-(CH_2)_h\text{-}N(R_a)\text{-}(CH_2)_i\text{-}CO_2T$, and $-(CH_2)_j\text{-}N(R_b)\text{-}CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_k\text{-}CH_2\text{-}CO_2T$;

Y_1 is selected from the group consisting of hydrophilic peptides, arylpolysulfonates, $-(CH_2)_aOSO_3T$, $-(CH_2)_aNHSO_3T$, $-(CH_2)_aCO_2(CH_2)_bSO_3T$, $-(CH_2)_aOCO(CH_2)_bSO_3T$, $-(CH_2)_aCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCO(CH_2)_bSO_3T$, $-(CH_2)_aNHCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCSNH(CH_2)_bSO_3T$, $-(CH_2)_aOCONH(CH_2)_bSO_3T$, $-(CH_2)_aPO_3HT$, $-(CH_2)_aPO_3T_2$, $-(CH_2)_aOPO_3HT$, $-(CH_2)_aOPO_3T_2$, $-(CH_2)_aNHPO_3HT$, $-(CH_2)_aNHPO_3T_2$, $-(CH_2)_aCO_2(CH_2)_bPO_3HT$, $-(CH_2)_aCO_2(CH_2)_bPO_3T_2$, $-(CH_2)_aOCO(CH_2)_bPO_3HT$, $-(CH_2)_aOCO(CH_2)_bPO_3T_2$, $-(CH_2)_aCONH(CH_2)_bPO_3HT$, $-(CH_2)_aCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCO(CH_2)_bPO_3HT$,

$-(CH_2)_aNHCO(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCONH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3T_2$, $-(CH_2)_aOCONH(CH_2)_bPO_3HT$, $-(CH_2)_aOCONH(CH_2)_bPO_3T_2$;

W_1 is $-CR_cR_d$;

a, b, d, f, h, i, and j independently vary from 1-10;

c, e, g, and k independently vary from 1-100;

R_a, R_b, R_c, and R_d are defined in the same manner as Y_1; and

T is either H or a negative charge.

2-16 (CANCELED)

17. (PREVIOUSLY PRESENTED) The compound of claim 1 wherein R_3 is C_1 alkyl.

18. (CANCELED)

19. (PREVIOUSLY PRESENTED) The compound of claim 17 wherein each of R_4 to R_7 is independently -H or $-SO_3T$.

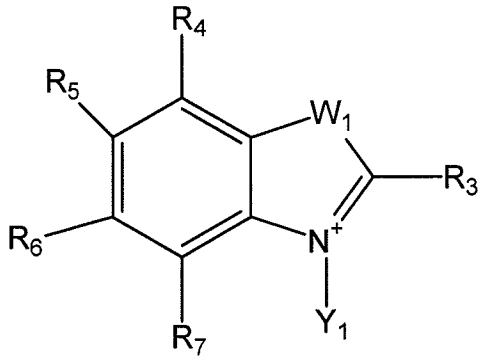
20–22. (CANCELED)

23. (PREVIOUSLY PRESENTED) The compound of claim 1 wherein each of R_4 to R_7 is independently -H or $-SO_3T$.

24-26. (CANCELED)

27. (CURRENTLY AMENDED) A method for performing a diagnostic or therapeutic procedure which comprises

administering to an individual an effective amount of a compound of formula 1



Formula 1

wherein

R_3 is C_1-C_{10} alkyl;

R_4 to R_7 are independently selected from the group consisting of -H, C1-C10 alkoxyl, C1-C10 polyalkoxyalkyl, C1-C20 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, saccharides, amino, cyano, nitro, halogen, hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, C1-C10 aryl, $-SO_3T$, $-CO_2T$, -OH, $-(CH_2)_aSO_3T$, $-(CH_2)_aOSO_3T$, $-(CH_2)_aNHSO_3T$, $-(CH_2)_aCO_2(CH_2)_bSO_3T$, $-(CH_2)_aOCO(CH_2)_bSO_3T$, $-(CH_2)_aCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCO(CH_2)_bSO_3T$, $-(CH_2)_aNHCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCSNH(CH_2)_bSO_3T$, $-(CH_2)_aOCONH(CH_2)_bSO_3T$, $-(CH_2)_aPO_3HT$, $-(CH_2)_aPO_3T_2$, $-(CH_2)_aOPO_3HT$, $-(CH_2)_aOPO_3T_2$, $-(CH_2)_aNHPO_3HT$, $-(CH_2)_aNHPO_3T_2$, $-(CH_2)_aCO_2(CH_2)_bPO_3HT$, $-(CH_2)_aCO_2(CH_2)_bPO_3T_2$, $-(CH_2)_aOCO(CH_2)_bPO_3HT$, $-(CH_2)_aOCO(CH_2)_bPO_3T_2$, $-(CH_2)_aCONH(CH_2)_bPO_3HT$, $-(CH_2)_aCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCO(CH_2)_bPO_3HT$, $-(CH_2)_aNHCO(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCONH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3T_2$, $-(CH_2)_aOCONH(CH_2)_bPO_3HT$, $-(CH_2)_aOCONH(CH_2)_bPO_3T_2$, $-CH_2(CH_2\text{-}O\text{-}CH_2)_c\text{-}CH_2\text{-}OH$, $-(CH_2)_d\text{-}CO_2T$, $-CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_e\text{-}CH_2\text{-}CO_2T$, $-(CH_2)_f\text{-}NH_2$, $-CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_g\text{-}CH_2\text{-}NH_2$, $-(CH_2)_h\text{-}N(R_a)\text{-}(CH_2)_i\text{-}CO_2T$, and $-(CH_2)_j\text{-}N(R_b)\text{-}CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_k\text{-}CH_2\text{-}CO_2T$;

Y_1 is selected from the group consisting of hydrophilic peptides, arylpolysulfonates, C1-C10 alkyl, $-(CH_2)_aOSO_3T$, $-(CH_2)_aNHSO_3T$, $-(CH_2)_aCO_2(CH_2)_bSO_3T$, $-(CH_2)_aOCO(CH_2)_bSO_3T$, $-(CH_2)_aCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCO(CH_2)_bSO_3T$, $-(CH_2)_aNHCONH(CH_2)_bSO_3T$, $-(CH_2)_aNHCSNH(CH_2)_bSO_3T$, $-(CH_2)_aOCONH(CH_2)_bSO_3T$, $-(CH_2)_aPO_3HT$, $-(CH_2)_aPO_3T_2$, $-(CH_2)_aOPO_3HT$, $-(CH_2)_aOPO_3T_2$, $-(CH_2)_aNHPO_3HT$, $-(CH_2)_aNHPO_3T_2$, $-(CH_2)_aCO_2(CH_2)_bPO_3HT$, $-(CH_2)_aCO_2(CH_2)_bPO_3T_2$, $-(CH_2)_aOCO(CH_2)_bPO_3HT$, $-(CH_2)_aOCO(CH_2)_bPO_3T_2$, $-(CH_2)_aCONH(CH_2)_bPO_3HT$, $-(CH_2)_aCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCO(CH_2)_bPO_3HT$, $-(CH_2)_aNHCO(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCONH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCONH(CH_2)_bPO_3T_2$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3HT$, $-(CH_2)_aNHCSNH(CH_2)_bPO_3T_2$, $-(CH_2)_aOCONH(CH_2)_bPO_3HT$, $-(CH_2)_aOCONH(CH_2)_bPO_3T_2$;

W_1 is $-CR_cR_d$;

a, b, d, f, h, i, and j independently vary from 1-10;

c, e, g, and k independently vary from 1-100;

R_a, R_b, R_c, and R_d are defined in the same manner as Y_1; and

T is either H or a negative charge; and

performing the diagnostic or therapeutic procedure.

28. (PREVIOUSLY PRESENTED) The method of claim 27 wherein

R_3 is C_1-C_{10} alkyl;

R_4 to R_7 are independently selected from the group consisting of C1-C5 alkoxyl, C1-C5 polyalkoxyalkyl, C1-C10 polyhydroxyalkyl, C5-C20 polyhydroxyaryl, mono- and disacharides, amino, nitro, hydrophilic peptides, arylpolysulfonates, C1-C10 aryl, $-SO_3T$, $-CO_2T$, -OH, $-(CH_2)_aSO_3T$, $-(CH_2)_aOSO_3T$, $-(CH_2)_aNHSO_3T$, $-(CH_2)_aCO_2(CH_2)_bSO_3T$, $-(CH_2)_aOCO(CH_2)_bSO_3T$, $-CH_2(CH_2\text{-}O\text{-}CH_2)_c\text{-}CH_2\text{-}OH$, $-(CH_2)_d\text{-}CO_2T$, $-CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_e\text{-}CH_2\text{-}CO_2T$, $-(CH_2)_f\text{-}NH_2$, $-CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_g\text{-}CH_2\text{-}NH_2$, $-(CH_2)_h\text{-}N(R_a)\text{-}(CH_2)_i\text{-}CO_2T$, and $-(CH_2)_j\text{-}N(R_b)\text{-}CH_2\text{-}(CH_2\text{-}O\text{-}CH_2)_k\text{-}CH_2\text{-}CO_2T$;

Y_1 is selected from the group consisting of hydrophilic peptides, arylpolysulfonates, $-(CH_2)_aOSO_3T$, $-(CH_2)_aNHSO_3T$, $-(CH_2)_aCO_2(CH_2)_bSO_3T$, $-(CH_2)_aOCO(CH_2)_bSO_3T$;

W_1 is $-CR_cR_d$;

a, b, d, f, h, i, and j independently vary from 1-5;

c, e, g, and k independently vary from 1-20;

R_a, R_b, R_c, and R_d are defined in the same manner as Y_1; and

T is a negative charge.

29. (CURRENTLY AMENDED) The method of claim 27 wherein each R_4, R_6 and R_7 is H, R_5 is SO_3T, Y_1 is ~~$-(CH_2)_3SO_3T$; W_1 is $-C(CH_3)_2$~~; and T is a negative charge.

30. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure uses light of wavelength in the region of 350 nm -1300 nm.

31. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure comprises monitoring a blood clearance profile by fluorescence using light of wavelength in the region of 350 nm to 1300 nm.

32. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure comprises monitoring a blood clearance profile by absorption using light of wavelength in the region of 350 nm to 1300 nm

33. (CURRENTLY AMENDED) The method of claim 27 wherein the diagnostic or therapeutic procedure is for physiological function monitoring.

34. (CURRENTLY AMENDED) The method of claim 33 wherein the diagnostic or therapeutic procedure is for renal function monitoring.

35. (CURRENTLY AMENDED) The method of claim 33 wherein the diagnostic or therapeutic procedure is for cardiac function monitoring.

36. (CURRENTLY AMENDED) The method of claim 33 wherein the diagnostic or therapeutic procedure is for determining organ perfusion in vivo.